

I CLAIM:

1. A headphone device with surround sound effect, comprising a speaker unit that includes:

a center channel transducer;

5 a surround channel transducer;

a mid/woofer transducer; and

a base plate having a first side and a second side opposite to said first side, said first side of said base plate being formed integrally with first, second and third transducer coupling portions,

10 each of said first, second and third transducer coupling portions retaining a respective one of said center channel transducer, said surround channel transducer and said mid/woofer transducer on said first side of said base plate such that sound generated by the respective one of said center channel transducer, said surround channel transducer and said mid/woofer transducer radiates through said second side of said base plate,

20 said first, second and third transducer coupling portions having first, second and third axes, respectively,

said first, second and third axes extending in mutually different directions.

25 2. The headphone device as claimed in Claim 1, wherein said speaker unit further includes a cap member mounted on said base plate and disposed to conceal said center

channel transducer, said surround channel transducer and said mid/woofer transducer.

3. The headphone device as claimed in Claim 1, wherein each of said first and second transducer coupling portions is formed with a through hole that extends from
5 said first side to said second side of said base plate such that the sound generated by the respective one of said center channel transducer and said surround channel transducer can radiate through said second side of said
10 base plate.

4. The headphone device as claimed in Claim 1, wherein said third transducer coupling portion is formed with a set of through holes extending from said first side to said second side of said base plate such that the
15 sound generated by said mid/woofer transducer can radiate through said second side of said base plate.

5. The headphone device as claimed in Claim 1, wherein said first axis forms a first angle with a first line that is transverse to said second side of said base plate,
20 and said second axis forms a second angle with a second line that is transverse to said second side of said base plate and that is spaced apart from said first line.

6. The headphone device as claimed in Claim 5, wherein each of said first and second angles ranges from 20 to
25 30 degrees.

7. The headphone device as claimed in Claim 1, wherein said third axis is transverse to said second side of

said base plate.